

Lept. 1856 Cart 104 larger seed with milling takendes. Sterns 5-8 inches high, not to deugely cespilore as the top last one, fælle green colour at soft flably structure and feel, sits broader, internel shellower gudiel spring from \$-12 on 15 liky long, lower ones longer the the epprones on these very commonly entirely wanting and replaced by the 3 upper occitent ones which The ofcourse are larger the the lower sadal our, centrel their on in Jane pobebly guy speritures are of about the same length. Control spin, 1/2 - 3 inches log, The lower one somethet stouter e Conger the engine ones d'auter How not as full as in the (bl. wid) last speries pertals fewer namower, piler, e e it sperion before un very obliese and cloud entire, pale In This as well as the last species the ovary to is semakely semile and undevelopped the spines on it for and short almost single forth way 2-3 out tibe 4-6 (.6) and the growing i leagth and number with your fruit govern pil 9-12 sprunleg i æach farendle-Jog livey long, strongly bulbon, at lase. The Fruit 1-1/2 inch, log with 20-24 pulville green en savelg redrich insipid or andulon et pleasa Ity avid Jeed lager the the two last MISSOURI BOTANICAL

copyright reserved GARDEN 4/4 tuberiiles somewhit conflicent and formy iregular tales pit between the. These three spiries are very nearly allied the first one is always distringuished for the two Cart by known the spinle, flow in plant while in the two letter speries they are smill, sleade at short, fewer Than on the tube and become much lagura e numeron outhe fruit, a chamiter ettick ispende. to these two speries as her. not been observer i acez others Echimoreren, Ma des bott sperier ære dishuguish e from our another surpsig 412 Con # C. polyaranthus & ovato-cylindiplenique raespetoser samos. Isrdanger The glacies cens, "rostis 9-13 finterruption tomentosis, spor mudatis, anding s. Lemme roughstir, avulleis enterni sobutti oribus q-12 tigids scottis exteni albidi s. e ornered subellis, apor Mouris, demu vinerces, exteriority 8-12 pan bulbosis laterality papersoner kongsbribers. metrality 3-4x paulo rabutionity MISSOURI

junite, suepe romer fus coare waringsti Acquitongis, longinder, Sub-vederic Estembler ovario pulville, velles to mentoris aculeolos 6-15 variegetes generatitos stiputos lameolitis tribuje lameolitis tribuje lameolitis perioditis contratistas 10-12 acoulotificos sepilis supenionis linear Courceletts 1. Ablancedati spetheleti, ve, micronalis 1. solde supenbribus oblusies, putales 18-22 spather later obliger jutegris s. Erosis, correining base pulled in buy standing la tube de de inter Smit mudo, star bus brooks, stopler exsets stignetiles sub & enertis barra svata, subglobosa sunh, bus megier ale, erregulert tubervalete, A common plant at El l'aso above et belon, at as for south as Chhuchen at Conguerrachi the Mountain west of it, on mountains as also on the Jand nidges or stony hills with hurren, fl. Manh & April, frieden Atead 5-10 which high at 2/2-4 idente pele green om glanson, preolee 1/2-1 i hely apart is spines very manible, lateral pot strictly raditing but spready upp ones about Little & lines later & lower on 9-12 lely, contis i spin i yez spingle n'olden and mer perfect our Muray, 2 or 4, in Town harts longe vithen the sall on g -12 l. long but usuelly longer a sometimes as long as 2 or even 2 /2 juch, long, lower rentral spike always longen than the Jun of & mil ollers. __ flowers 2 - 3 thing long. (2 (2)) not guite ov long wide pretats stiff An 4- Barys a I some shet romeave so le of a steplant of a steplant of weeky with a propose of weeky MISSOURI

416 besettate in it fraker or free of thement folderments for 3x4 lings show with the case 3/2-1/4 inch log; of a please & goozebeng flavor. Leed largen Than any of Echinovers How to ene 0.8 or 0.9 l. Con hile oblong deight brought more formed enabyer large substantar with a three of albumen, monthly uzually for this Allgemen, suly fame also mere cume Than usually in this Jenny, a & obtledos almost feliciens se but over appearants the oflage of there fill of Carei. MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS Con Moumen super 62880. your spers gelovily or almost Greenist depuls of overst tiete 16-18_ with 3-5 opin i dxills, styles 6-1 perhaps too hear C. Somer poly a valley from which so fan seems to be obstingen st tott more ovite short heads mult fewer puler spine, the Smiller much of the parts of the alway tobulier flower. Leeds emknown_ Cer pacerispider ovatus si suplex ovato ogladion, para ramon, simplex ostis semolis ostis semolis semolis sulling later juntos para alle tolumbej. spire Sole anti, aculei, sobusti 3-6 s. saviter 3 rectis subnowing pellisie celevis supo fusero, omils MISSOURI BOTANICAL copyright reserved GARDEN

Cact 103 291 1856 Demun rivers perois, southetti mello san as sobretto atroferror subranguleto Tiense verso s. porreito. fl... p. ? som abovates shoufleut tet en let. Atom the Some Sedow to the Month of the Peros on rocks a gonorelly transton hell Henkan steer 5-9 sucher high 2-3' i Signater not respilon only will for broken from new the base not for grover wireshiller Anolen 2-10 lapart, spin, fin a e deck rolones g-15 le leg eggen one eft-shorts or centres The when present of 18-20 l. los fl. afrif waknown, but seed. such as court from the plant of suntent that of Coparanthey. 07-0.X (. leg, obligne, will a læge totade hile tuterrly slightly confluent toke here the place of Copolegacanthey etalle father cast is orrupe. by O. Moenin - Johngush The the other spines by the few-Munitis Voule Subtereto astitulato - nauversuine toberelis avnivis disharbis 5-6-faris areolis pavis ostralates, ruerites brev ten alle tountosis, aculeus tenentos subsetaveis 6-8 savantet albits, I outher furrate plingre mette longione; floribus lateralibus surgais; pulloillis ovani 20 2 breviter allo to mentoris a celeolos & 10 Com aplantos bys bullosos, 8-10 longern, albridas ell#2 Dobustines MISSOURI

fiscos genutibus, sepales labi infenditos
8-10 acaleiferis, supervib, 13-16 vermenter s. cuspidalis. petalis late Cheanty . I. Cheans oblans colatis for micronatis aprice Scationalis, Semen receivation,
stigmentibles f-10 vividibles
bacoa subsicora, semenbus pagois obout subgloboses, the Con Cati Alle ortani. Outh America Sedansien, fregues in Cellivation sutroland for South Texas; fl May & Sum . - A sprang I for the ett eart bruch, content el buse e I thereby artistels. ih binds by Eliech thek with teres with Istail spring Sipone testeriles on toberthe anny e i som brune parp Nolen series, ariolee 4-6 1. aport, radel spin britte like vuker the those of the nixt sperie 4-5- Colog sometimes a stouter Oaker on opened of. anola, cettel of yellwith brown shorte on the low parte of each brank, longer town The Top, 5-6 26 12-13 1. Con. Hon 2-4 Into log and someting en more i vidth. britle, eftete below 2-3 ale 4 blivis by to weather white and short, petal, clonique be of 3-4 or randy & like wite, bright purple,

0 1 2 3 4 5 6 7 8 9 10 Mis Bot cm copyright reserved G A

MISSOURI BOTANICAL GARDEN I stignet short pele page or medland, being all g (.lo mostly with the the elongit hailthe pinale, per ost horts I dishally tuberrulated with a circular hiture. E. Med. 1850 p. 2003 Compaintend hamily p.75 p. 60 75 floribes sub aprice rumon latenliky magnis, pubilles ovanis sub 21 albid villosis splas aculculos spirantes personangely nigidos 6-9 gerentitos sepalis tubis
enferiorios 12/5 anilistes; paperintes pob 15 Come landelts aments potelis 18-20 linear spettalate, anti 2 deturis, entegnis, plage patules s. dem revenvry, vide eroso deutades stignistity 2010-14, Shanas landis plade flavranter superatily Harra ovats virit i regulacite Deprivate. Le milos parviles dy theforts or pressis talanding on the this In I belo Malauera, May Sum the were stendent. 12 Similar, the content 4-5 Capail in 4 samiets of the appear acutely hage or The it is now tento on spring different Bether 1-2 l.by latitudone of low part of joint water on huts Congretha indie one, about 2-te lelong, with putals off recurred 4-6 lines with MISSOURI BOTANICAL copyright reserved

GARDEN

bor & l. long grown, seed ben the os a long much compressed with an elonget hilang. Faberdly much smaller than in the seed of Hulast offend. Hear alkenlanden de Las Mingue is abundantly distinguished for it MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS aculeolizer paule augulato elongato stighentity si who squamoso filipon to, allist, semin'ty lævber 1. mgori neg tuben letti j Aflander embyon havette velledont foliacei sucuris Regions fatt this I wo Darll solvision That section of the Sulvati compaising C. gryanters & Therebers no dokt oreght to forma separate subgences, af the same vilne as Echinoreren Shick might be ralled Lepidore cues charales by the short flowers with flexy tube 10aly orang all parts of flower. and Thinten fruit; _ purting very numerous C. Chilensis a flowing which has pital fleshy MISSOURI BOTANICAL copyright reserved GARDEN

Cat. 106 Lenz 185% 421 Atists of the A. been figured by the Expl. Exp al Capt Wilker, and perhaps sevene west and for strongs here C. Emonyi surpay. 94. - Ital. The short auteolate glowers some to pefer our speries to Echimorereus but the seed is quite different and seems to shirete a true lecrem, Stigma unknown get as well as the Thole flower, of which we have only the vertet short notice of Dat Conti fre Menny Lan noberdy sund up that plant are the other whenty Cet for Monteny the California Coart with which eve have unalmost degly intercourse Explorer of the Bounty line met oneght to be rubbivated i every rollection of Cadi, where it will form a procelie omme by the propession of its golden sprang. He very spike finis an also seen i som somthe Cerci und seems nothen different fr- H. Jit of the The worden. MISSOURI

422 napi formi erectus gravilis, ramis eu p. 18.51.52 paceris enchis, 3-6 augulatis, atsi viveratiber supe niferentiber, costis ævetti selvir latis plemis, veles ercoli drugation oblomes - linearities confertis s. subscriptibles permits bannigsirante institut dem de idea vishiles, aculeis pignatution e basi instante (mosa bulbora) abrupte subulation cismontains oo brevisionis, nigriantibus, vetastis o o onereis. 6-9 moral by subrecuri 000 000 000 infrais 3 florgrowths, rentalis sugres splan oin seper poites breoites alber spelle de ochrblewed northe flore ochrblewed northe public, obibles. & extens purpusariota aneres s. observe vellosis vixanles latis, tube elongate sepelis squame formber linear lampestelis æren uty from montons enflorion to aculedo, parcos trojunes. superates pluses capillaces gerate leng, sepeli cuterrels 15-20 et polali 18.20 la neolati, arun natis stylo stamin acquente stignett, sub 10 pallbirs, barra ovalu basi contracta aprile accuments nostrales, floris sur! mente servatis revenvis mente pubrillis spendigeris Denu nadstri munita, romme pulposa, semabres magner obligne stovati, sugosis tennimen tubernetti, kulo subbandan subordani, albered parismue embryene obtledents foliareis araubealiber havalo

0 1 2 3 4 5 6 7 8 9 10

cm

Copyright reserved

GARDEN

123 L'oris montanus arrolis elongastus, browning, pelelir Ketidriben: B. Ames montann, arcolis ovato orhibeles floris tutes gran Even, anderlis longiones temmiter rapillareis flexuoses puteli linean lamestitu Conze æremistalis. From the Rei La Person to Texas So nom, I forth Registant i graville on he ding He May & Fune - Rook a large Serby tuber offen hob , who i Santing 6-10 inter long, generally pulling only one stem with evert brunds 2-3 feet high, 9-22 at tere Their, rath lents ligner, upon 9-12 lia, det et fatte ange usule fors angles. The with the at careles exacenhation seconomicales The elevate axcolve being separate by a slight indultion, ast spins beig har of ord. He La ditare.

Uncolor i green shoots 5-6 in the one inh, - olden plants all 3 are four ent lance space Spines ramashely short al sharp 12-1 line by the lower 3 spings such are the longue as minimise to a fine brittle like point offer south ound, al not mely crossing each other, 2 or usually I latent spring onrach side above the points of the hours tund Dideways down and I ofthe upper pair satt approas, mostly

0 1 2 3 4 5 6 7 8 9 10

Copyright reserved

MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS

2 very short outre spines, they the sh at base, the love on the dut yprome exprands; These spikes seen to grow - i've after they get older on the low part of the st ar fisthe result twide as thick but not longer the the younger one, they else the bear is regulary Jone of the South ones appartly Disappearing, while the large one, row it would place Horns har only been rollected by the freeze and thember Al the rollivated spermens have not get pooten of flow He seems to be scotumel, as Mr Much olleched it in The early morning hours when it make no hotice of the riverstay Evan 9-12 l. log, whole there? flower 6-8 miles log, a who fell of all 2/2 hauter forthe of the bele 12 upwards 2-6 a 2 - var/1 6-10 1. long Carge style nt longen and formet. Stignete abl subund, Sterry mate, 14-1/2 int, Co, with -dåten; slighty contracts at bust but not stoped an over davate but usually contracts at somewhite southable represents at the upp and. The showilled the

425 Cact: 10/ Pent. 1856 flower nema's attental to it, bry brythe wasted, fleshy, edible. Seed by 1/4 - 1/2 l. log - e / hi they with a læge alant ombe het. theoretes of the test, are flut a very minute, the winkly very destrict to the maker ege. The young seedling has rather shit purish for seedling the seed of a dedrit gree role always triangle role of a dedrit gree role with the orthograms short chamber to spruss which appear in alwest a conti med series onthe edges, The root soon wells and overfigure shows a plate in At this gean of its growth with a single trituegelen sten and en long garrot shap & root, alut as large as the steen etself. awfilet the root her wings agrant deel ouve man the An superterraneous part fill, In sorky valleys a I on Mothing. It offer the layers plat for were oranger of Morky Cer gjøg unten see p. 172 From the Valley of Bill Williams The (Lat 35, to Sonam Lat 31 - 20 and from the mobile Opele down to hear its worth, I can it find that it has been rolled for went of The Colombe Though it is public That it is alw ful on the Califu Parinsula., Allay to ful, fringe Jely e August. MISSOURI BOTANICAL

GARDEN

126

You plets are alcut clways from the the way for the forms the stand of this show of the grandant the stand of the dead having and ask made the dead have the dead have the stand of the stand of the sevent years north do carte stand nothing globose shape, and according to the political and according to the political and the political and according to the political and the political an (mylow) Shash zelow bronghet have speriens of ovate almost globone skape, I to suche, high which went be 8 or 19 years old. The plat flower, at the high of 10 or 12 feet and commonly your up to from 20 t 40 feet stems have been meason of beet high and higher ones have been seen To that the first state and of maj Lawy is all at all carputable the the plant is sometimen for for so bo feet high, It is mostly siegele, but offe with a few Eret bruche, souettes their my week brack a species have been observed where menen (5-9) branks spring for the James park Atte maci steen; the original bruche rarely produce recolony ones. The Nant of the stemme es længert nav the undle, om tapen upwards. I still the some hiffort above the gra withauty nearly 13 inches i d'aux et 10 fect higher it measure 23/4 inhes! - The williams
wheleton rousists of thicht benedles 1-2 inch, the position with the growers of the stem, or outhup part of the string, in you plats these string, are separates, but the town and Jusy in the wind like to weary rads. but at the lower pail. of the older stems they are MISSOURI

evittame cavitte reticulately connected diff ligner fissure as the inam cavity is of in the oldensteens marly filled up with the Jane bissen. The banches usually on the the stewn lating stending, but in vigale columns stending, but in vigale brown obtive or about obliterated I generally runing and parties wies loose their oping, brigher up they increase in lifeth only. number to ab 18-21 a & are triangular (frakely the four stay of running it an obtusing edge; towns the top with they are narrowly compressed, with obliged edges drik of Mohgelen a narrow deep grovver between them. i Caplaky Cylle, The arcolan see d'il som mant 1854 p. 2. on Willer Miller a Bill W. Krh Spiring as fralle, flower have been set by Mr Murber inhis log, the letter have a long the at are quite 4 inch, ilength. both of adult of when I when, asthering thiangeling soule of the tele , approspil, flesky grewite Shite 3/4 - 1 with lay, Colon Z, about 4 l. wide, Peter See sill. Jon. - Com pap of the 1- 1/2 ind makes e states that (where the pris govers in clearly) - the puil is usually thousand allowse and very off preachapt, see till q oblong, somber obly, mosth skining slightly rannets, hihm bes. lan, namonly obling. I close stept. 6 h 10. a.m.!

0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved

GARDEN

128.	Neview of the Cartavere describe
	sin The Sympasis Am And Sept. 1856 Déscribed Theres distint a mille of the speries
Mamillana	Species distinct a might be of the speries sistinct be me reduced berognishing forms as species to types me and new 12
3. Anhalonium	19 16 10 6
Cereus 1. Chinocercus 2. Curereus	33 25 12 10
3. Lépido rereis 4. Pilorereis Opuntin 1. Hénopantin	2 2 2 1 1 3 3 3 1 3 3 1 1 3 3
3. Calindopuntés	44 27 16 18 23 22 14 14 165 131 92 63
Of Clavatre Of. Cylind.	6 . 6 . 3. 4
	MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10

Copyright reserved

Copyright reserved